KARNATAKA TEST HOUSE PVT. LTD.

MATERIAL TESTING LABORATORY

778/44, Gokul 1st Stage, 2nd Phase, 8th Cross, Triveni Road,
Yeshwanthpur, Bangalore - 560 054.
Tel.: 23378383 Telefax : 23375326, E-mail : kthblr@gmail.com Website : www.karnatakatesthouse.com

Report No. : KTH/F.AGG/911-1322/2013-2014 **Date: 13.08.2013**

TEST REPORT ON AGGREGATE

(Fine Aggregate)

Name of the Customer*	:	**The Assistant Executive Engineer,** T.Dasarahalli Sub Division, Bagalagunte, BBMP, Bangalore.
Name of the Project*	:	Improvements to drains at Bagalagunte Main Road left side in Ward No. 14.
Name of Contractor*	:	Mr.M.Rajashekar, Bangalore.
Source of Sample	:	Supplied by the Contractor.
Sample Received on	:	08.08.2013
Technical Reference	:	IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Fine Aggregate

Sl. No.	Sieve size mm	% Passing	IS : 383 – 1970 Specification				Remarks
			% passing for Zone I	% passing for Zone II	% passing for Zone III	% Passing for Zone IV	
1	10	100	100	100	100	100	Falls in Zone –II as per table 4 of IS-383 – 1970.
2	4.75	93.6	90 – 100	90 – 100	90 – 100	95 - 100	
3	2.36	79.2	60 – 95	75 – 100	85 – 100	95 - 100	
4	1.18	61.8	30 – 70	55 – 90	75 – 100	90 - 100	
5	0.600	39.1	15 – 34	35 – 59	60 – 79	80 - 100	
6	0.300	10.6	5 – 20	8 – 30	12 – 40	15 to 50	
7	0.150	1.7	0 – 10	0 – 10	0 – 10	0 to 15	

Sl. No.	Test Conducted	Results	IS : 383 – 1970 Stipulations
1.	Silt Content (%)	1.65	-

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C)
TECHNICAL MANAGER

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Report No. : KTH/C.AGG/911-1321a/2013-2014 **Date: 13.08.2013**

TEST REPORT ON AGGREGATE
(Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
T. Dasarahalli Sub division,
BBMP, Bangalore.

Name of the Project* : Improvement to drains at Bagalagunte Main Road Left side in Ward NO. 14.

Name of Contractor* : Mr.M Rajashekhar, Bangalore

Source of Sample : Supplied by the Contractor.

Sample Received on : 08.08.2013.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 20mm

Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	40	100	100	100	Sample confirms to Single size of IS: Stipulation of 20mm size Aggregate
2	20	87.3	85 to 100	95 to 100	
3	16	39.7	-	-	
4	10	5.9	0 to 20	25 to 55	
5	4.75	0.8	0 to 5	0 to 10	

Sl. No.	Test Conducted	Identification mm	Results %	IS : 383 – 1970 Stipulations
1	Flakiness Index (%)	20	12.20	Not specified
2	Elongation Index (%)	20	7.42	Not specified
3	Crushing Value (%)	20	22.67	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

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For **KARNATAKA TEST HOUSE PVT. LTD.**

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Report No. : KTH/C.AGG/911-1321/2013-2014 **Date: 13.08.2013**

TEST REPORT ON AGGREGATE
(Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
T. Dasarahalli Sub division,
BBMP, Bangalore.

Name of the Project* : Improvement to drains at Bagalagunte Main Road Left side in Ward NO. 14.

Name of Contractor* : Mr.M Rajashekhar, Bangalore

Source of Sample : Supplied by the Contractor.

Sample Received on : 08.08.2013.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 40mm & down size

Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	63	100	100	100	Sample confirms to Single Size for IS: Stipulation of 40mm size Aggregate
2	40	85.6	85 to 100	95 to 100	
3	20	14.3	0 to 20	30 to 70	
4	12.5	2.8	0 to 20	-	
5	10	-	0 to 5	10 to 35	
6	4.75	-	-	0 to 5	

Sl. No.	Test Conducted	Identification mm	Results	IS : 383 – 1970 Stipulations
1	Flakiness Index (%)	40	11.71	Not specified
2	Elongation Index (%)	40	8.96	Not specified
3	Impact Value (%)	40	21.96	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

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For **KARNATAKA TEST HOUSE PVT. LTD.**

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Report No. : KTH/ CEMENT /911-1322/2013-2014 **Date: 18.08.2013**

PHYSICAL TEST REPORT ON CEMENT

Interim 3 & 7 days

Name of the Customer*	:	**The Assistant Executive Engineer,** T.Dasarahalli Sub Division, Bagalagunte, BBMP, Bangalore.
Name of the Project*	:	Improvements to drains at Bagalagunte Main Road left side in Ward No. 14.
Name of Contractor*	:	Mr.M.Rajashekar, Bangalore.
Source of Sample	:	Supplied by the Contractor.
Type of Cement*	:	Ordinary Portland cement (OPC)
Brand of Cement*	:	Birla Super 53 Grade.
Sample Received on	:	08.08.2013
Period of Test	:	10.08.2013 to 17.08.2013
Technical Reference	:	IS: 4031(Part I–VI) 1988 (Reaffirmed–2000) & IS: 12269-1987.

Sl. No.	Test Conducted	Results	IS : 12269-1987 Stipulation	Remarks
1	Normal consistency	29.5%	Not specified	-
2	Initial setting time	160 minutes	Shall not be less than 30 minutes	P
3	Final setting time	241 minutes	Shall not be more than 600 minutes	P
4	Compressive strength (Average of three results) a. 72 ± 1h (3 days) b.168 ± 2h (7 days) c. 672 ± 4h (28 days)	 29.74 MPa 40.69 MPa T.T.C	 Shall not be less than 27.0 MPa Shall not be less than 37.0 MPa Shall not be less than 53.0 MPa	 P P -
5	Fineness (By Blaine's air permeability method)	315.01 m^2/kg	Shall not be less than 225 m^2/kg	P
6	Soundness (Le-chatlier's method)	1.00 mm	Shall not be more than 10 mm	P

P: Passes IS requirement F: Fails IS requirement T.T.C: Test To be Conducted.

*As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C.)
TECHNICAL MANAGER

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